

Description

[SUPPORT FOR DISPENSING DEVICE]

BACKGROUND OF INVENTION

[0001] Technical Field

[0002] This invention relates to a support for a hand held dispensing device. More particularly, it relates to a support for a hand held liquid dispensing device which includes a container support and facilitates the filling of a container as well as affords connection to a dispensing hose for filling a bucket.

[0003] The prior art does not provide a support or holder for hand held liquid dispensing devices. There is a need for such an apparatus. The type of hand held liquid dispensing devices concerned with in this invention are those which are attached to a hose and a container with liquid concentrate. Such a device is described in U.S. Patent Application Serial No. 09/956,294 filed on September 19, 2001, which teachings are incorporated herein by reference. This type of dispenser dispenses cleaning, disinfec-

tants and similar types of materials. After use, it is desirable to have a place to store the dispenser. It would also be desirable to have a storage apparatus which would also allow for the filling of containers and buckets with diluted concentrate while the dispenser is being stored.

SUMMARY OF INVENTION

- [0004] The present invention provides an apparatus for supporting a hand held liquid dispensing device. The apparatus includes a first support member for receiving a nozzle portion of the dispensing device. There is a second support member for holding a container, the first and second support members are spaced from each other in substantial axial alignment and connected to a frame member for connection to a supporting structure.
- [0005] In a preferred embodiment, the first support member includes a cavity.
- [0006] In another preferred embodiment, there are two oppositely disposed first support members connected to the frame member.
- [0007] In one aspect, the first support member is defined by a platform having a cavity for placement of a dispenser nozzle therein and the second support member is defined by a foot portion, the foot portion supported by the frame

and pivotally connected to the frame member.

[0008] In another aspect, there are two oppositely disposed second support members connected to the frame member. The frame member is defined by a first portion extending in a first direction and a second portion extending essentially at right angles to the first portion with the second portion connected to the two oppositely disposed second support members.

[0009] In still another aspect, the invention provides a combined hand held dispenser device and apparatus for supporting the device.

[0010] The objects of the invention therefore are:

[0011] a) Providing an apparatus for storing and supporting a hand held liquid dispensing apparatus;

[0012] b) Providing an apparatus for storing and supporting a hand held liquid dispensing apparatus which is easily utilized;

[0013] c) Providing an apparatus of the foregoing type which facilitates the filling of containers;

[0014] d) Providing an apparatus of the foregoing type which can accommodate two dispensing devices; and

[0015] e) Providing an apparatus of the foregoing type which can be economically manufactured.

BRIEF DESCRIPTION OF DRAWINGS

- [0016] FIGURE 1 is a perspective view of the support for dispensing device of the invention as well as two dispensing devices;
- [0017] FIGURE 2 is a front view of the support for a dispensing device showing the filling of a bucket;
- [0018] FIGURE 3 is a top view of the support for a dispensing device;
- [0019] FIGURE 4 is a front view of the support for a dispensing device without any attachments;
- [0020] FIGURE 5 is a side view of the support for a dispensing device;
- [0021] FIGURE 6 is a bottom view of the support for a dispensing device; and
- [0022] FIGURE 7 is a front view with a portion shown in phantom illustrating the supporting structure for the dispensing device.

DETAILED DESCRIPTION

- [0023] Referring to FIGURES 1–4, the support apparatus generally 10 is illustrated in conjunction with a dispensing device 12. The dispensing device was previously referred to above as described in U.S. Patent Application Serial No.

09/956,294 filed on September 19, 2001. The support apparatus 10 includes a platform 14 and a back wall 16, as well as cavities 18 which receive the spout 22 of the dispensing device 12. There are also foot portions 25 and 27 which are pivotally attached to a frame 30 for purposes of supporting containers such as bottle 33. These foot portions 25 and 27 have indentations 35 so as to accommodate the bottoms of a bottle such as 33. As seen in FIGURES 1 and 2, there is a hose 40 which is attached to the dispensing tube of dispenser 12 for the purpose of filling bucket 38.

[0024] Referring to FIGURES 5–7, it is seen that the frame 30 includes a portion 42 extending essentially at a right angle to the vertical portion 46 of frame 30. This portion 42 supports the foot portions 25 and 27 which they are pivotally attached to frame 30. As best seen in FIGURE 6, frame 30 includes an additional U-shaped portion 44 supporting the platform 14 as by contact with the projections 48. As seen in FIGURE 7, there is connected to the frame 30 a cross-bar member 50 extending behind the wall 16 through which mounting screws 52 can be inserted, such as through the holes 53 as seen in FIGURE 4.

[0025] *Operation*

[0026] A better understanding of the support apparatus 10 will be had by a description of its operation. Referring to FIGURES 1 and 2, support apparatus 10 is mounted to a wall such as by the mounting screws 52. Dispensing devices 12 are supported by the support apparatus, such as by the placement of spouts 22 in the cavities 18. Water supply hoses (not shown) are connected to the connectors 54 such as by means of complementary disconnect devices (not shown). When it is desired to fill bottle 33, it is placed on foot portion 27. The bottle 33 can then be easily filled from the dispensing device 12 with a solution of the concentrate from the dispenser bottle 55 and the water. In the instance where it is desired to fill the bucket 38, the foot portion 25 is pivoted to an away position such as shown in FIGURE 2. This affords a direct path for the hose 40 which is connected to the dispensing tube 15 of the dispensing device 12. In those instances where two bottles 33 are desired to be filled, foot portion 25 will assume a similar position as shown for foot portion 27. In a like manner, it will be supported by the frame portion 42.

[0027] It will thus be seen that there now is provided a supporting apparatus for dispensing devices, such as 12, in a manner that they are not only conveniently supported in

an out-of-the-way position, but at the same time afford ease of filling of either a bottle 33 or a bucket 38.

[0028] The preferred materials for fabricating platform 14, as well as foot portions 25 and 27 is polypropylene. However, other materials such as acetyl resins and glass filled polypropylene could also be employed. Frame member 30 is composed of a steel bar with frame portion 42 being welded thereto as is portion 44 and the bar member 50. The preferred material for composing frame 30 is steel. However, other materials such as stainless steel and nylon could also be utilized.

[0029] While the support apparatus 10 has been illustrated for use with the foot portions 25 and 27 which could support two bottles 33 and alternatively provide for a connection support to the hose 40, it is readily apparent that the support apparatus could be designed for supporting only a single dispensing device and a single container 33 placed on foot portion 27. When it is desired to fill a bucket 38 foot portion 27 is moved to an upright position with connection to the hose 40 to the dispensing tube 15. All such and other modifications within the spirit of the invention are meant to be within its scope, as defined by the appended claims.